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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,431	10/29/2003	Cherng-Chyi Han	HT03-008	6805
7590 08/11/2006			EXAMINER	
STEPHEN B. ACKERMAN			KIM, PAUL D	
28 DAVIS AVENUE POUGHKEEPSIE, NY 12603			ART UNIT	PAPER NUMBER
	,2000		3729	
		DATE MAIL ED. 09/11/2006		

DATE MAILED: 08/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/696,431	HAN ET AL.				
		Examiner	Art Unit				
		Paul D. Kim	3729				
Period fe	The MAILING DATE of this communication apor Reply	pears on the cover sheet with the o	orrespondence address				
VVHIC - Exte after - If NC - Failt Any	CORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DEPOSITION OF	OATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on 18 M	May 2006.					
2a) <u></u>	<u> </u>	s action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	☑ Claim(s) 1-35 is/are pending in the application.						
•—	4a) Of the above claim(s) <u>19-35</u> is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)[Claim(s) is/are rejected.						
7)	Claim(s) is/are objected to.						
8)⊠	☐ Claim(s) 1-18 are subject to restriction and/or election requirement.						
Applicat	ion Papers						
9)[]	The specification is objected to by the Examine	er					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
ĺ	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* 5	* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s)						
	ce of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information: Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:							

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DETAILED ACTION

This office action is a response to the restriction requirement filed on 6/2/2006.

Response to the Restriction Requirement

1. Applicant's election with traverse of Group I, claims 1-18, in the reply filed on 6/2/2006 is acknowledged. The traversal is on the ground that the fields of search for Groups I and II are clearly and necessarily co-extensive. This is not found persuasive because these inventions are independent or distinct for the reasons given in the restriction requirement mailed on 5/10/2006 and have acquired a separate status in the art in view of their different classification.

The requirement is still deemed proper and is therefore made FINAL.

- 2. Claims 18-35 are withdrawn from further consideration pursuant to 37 CFR
- 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 6/2/2006.
- 3. Upon further review, Restriction to one of the following inventions for Group I is required under 35 U.S.C. 121:
 - Claims 1-4, drawn to a method to improve heat dissipation, classified in class 29, subclass 603.13.
 - II. Claims 5-9, drawn to a process to form a magnetic shield, classified in class 29, subclass 603.11.

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III. Claims 10-18, drawn to a process of manufacturing a magnetic read/write head, classified in class 29, subclass 603.16.

- 4. Inventions Group III and Groups I & II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination (Group I) as claimed does not require the particulars of the subcombination (Groups I & II) as claimed because the combination (Group I) as claimed does not require a ferromagnetic layer deposited on a substrate. The subcombination has separate utility such as a process of providing a layer of ferromagnetic material on a substrate.
- 5. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 6. Inventions Groups I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, a subcombination (Group I) has separate utility such as a process of providing a layer of ferromagnetic material on a substrate and a subcombination (Group II) has separate utility such as a process of providing and depositing a dielectric layer on a substrate and patterning a thermally conductive layer formed on the dielectric layer. See MPEP § 806.05(d).

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7. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

8. If applicant elects Group III, then:

Linking A, drawn to claims 11-15 and 17.

Linking B, drawn to claims 11-15 and 18.

Linking C, drawn to claims 11-14, 16 and 17.

Linking D, drawn to claims 11-14, 16 and 18.

Claim 10 links the inventions of Linking A-D. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claims, claim 10. Upon the indication of allowability of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise requiring all the limitations of the allowable linking claim(s) will be rejoined and fully examined for patentability in accordance with 37 CFR 1.104 Claims that require all the limitations of an allowable linking claim will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier.

Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

Applicant(s) are advised that if any claim(s) including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the

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claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. In re Ziegler, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

9. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D. Kim whose telephone number is 571-272-4565. The examiner can normally be reached on Monday-Thursday between 6:00 AM to 2:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Paul D Kim Primary Examine

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